Whirlpool

Service Manual

Washing machine
Frontloader
AWM 8062

Model AWM 8062
Version 8570 806 49000

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Family	SC1

This documentation is only intended for qualified technicians who are aware of the respective safety regulations.

Date: 21.03.2001
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Subject to modification

Technical data

Dimensions

Height	85	cm
Width	59.5	cm
Depth	56	cm

Weight

Without packing	73	kg

Main Connection

Voltage	230	V
Frequency	50	Hz
Power consumption	2.3	kW
Fuse rating	10	A

Drum

Volume	53	l

Capacity of dry laundry

Cotton/coloured	6	kg
Cotton rapid	3	kg
Cotton short	6	kg
Easy care	2.5	kg
Easy care rapid	1.5	kg
Easy care short	2.5	kg
Delicate	1.5	kg
Wool	1	kg

Water Level

Level 1		
Switching point	55± 5	mmWc
Switching back point	35± 5	mmWc
Overflow	280 ± 20	mmWc

Water level inside the drum

(only switching level inside the drum)		
Level 1	25- 39	mm
Overflow	267- 306	mm

Nominal currents

Contacts		
11 - 12	4 (4)	A
11 - 14	16 (4)	A
11 - 16	1 (1)	A
Contact system		
11 - 12 - 14	spring contact	
11 - 16	sliding contact	
Damping system	no	

Door lock

Lock time (20 ˚C)	3“ - 6”	
Unlock time	60“ - 90”	
Nominal voltage	230	V
Nominal current:		
Contact 4 - 5	16 (4)	A

Heating element

Kind of heating	Tubular heating element with NTC - sensor	
Nominal Voltage	230	V
Nominal power	2050	W
resistance R 25	22 - 28	Ω
Resistance NTC :		
0˚C	35.9	kΩ
30˚C	9.8	kΩ
40˚C	6.6	kΩ
50˚C	4.6	kΩ
60˚C	3.2	kΩ
70˚C	2.3	kΩ
95˚C	1.1	kΩ

Inlet valve

Water temperature	60	˚C
Rated flow <1 bar	8	l/min
Pressure range	0,5 - 10	bar
Nominal voltage	220 / 240	V
Frequency	50	Hz
Starting voltage:		
< 6 bar	160	V
6 - 10 bar	170	V
Nominal current	35	mA
Nominal power	6	VA
Nominal (20 ˚C)	3.4 - 4.5	kΩ

Drain pump (synchronous)

Nominal Voltage	230	V
Nominal current	0,3	A
Nominal power	34	W
Frequency	50	Hz
Resistor (coil)	155	Ω ± 7%
Motor protection	170	˚C
Capacity(1,25m height)	14 ± 2	l/min

Technical data

Program timer

Type	SC1
Timer basic	4619 712 52201
Timer programmed	4619 744 80521
Nominal voltage	230 V
Frequency	50 Hz

Connector

OA4.1 - OA4.2	5. Option
OA4.3 - OA4.4	6. Option
OB4.1 - OB4.2	3. Option
OB4.3 - OB4.4	4. Option
OC4.1 - OC4.2	1. Option
OC4.3 - OC4.4	2. Option
SLT3.1 - SLT3.3	Temp.selector
SLS4.1 - SLS4.4	Spin speed selector
VCF3.1 - VCF3.3	Valve (cold water)
VHF3.1 - VHF3.3	Valve (hot water)
Pi5.1 =	negative supply
Pi5.2 =	data
Pi5.3 =	clock
Pi5.4 =	positive supply
Pi 5.5 =	negative supply
PL3.1 - PL3.3	Pilot lamp

Connector

M7.1 - M7.7	Motor
DP2.1 - DP2.2	Pump
AQS2.1 - AQS2.2	Aquastopswitch
SET2.1 - SET2.2	NTC
DSS3.1 - DSS3.3	Door switch
PR2.1 - PR2.2	Pressostat
Single connector	
HE2.1 - HE2.2	Heating element
PS2.1 - PS2.2	Pressostat
SM2.1 - SM2.2	mains switch (3 fold connector)

Program 32 positions

	Cotton-/ coloured	Easy care	Deli-cate	Wool	Silk
Pre wash	02 - 06	03 - 06	04 - 06	-	-
Main wash	07 - 21	12 - 21	14 - 21	17 - 21	18 - 21
Rinse	22 - 28	22 - 28	22 - 28	22 - 28	22 - 28
Spin	29 - 31	29 - 31	29 - 31	29 - 31	29 - 31
Stop	32	32	32	32	32

Ambient temperature	up to 70	˚C
Storage temperature	up to 85	˚C
Wash speed	54	rpm
Ramp speed	95	rpm
Spin speed	600	rpm
Resistence (at the selector) :		
580 rpm	4.7	kΩ
580 rpm	3.6	kΩ
580 rpm	2.7	kΩ
580 rpm	1.8	kΩ
440 rpm	1.1	kΩ
95 rpm	0.68	kΩ
0	0	
Without resistor on push button switch		
released	580	rpm
pushed	500	rpm

Output

Motor	M7.6 - DSS 3.2	>40	V
Aquastop	AQ2.2 -DSS 3.2	230	V
in pump step	AQ2.1 -DSS 3.2	230	V
NTC	not measurable		
Pump	DP2.1 -DP2.2	230	V
Doorlock	DSS3.1 -DSS 3.3	230	V
Pressostat	E4 - E2	230	V
- empty	PR2.1 - E2	230	V
- full	PR2.2 - E2	230	V
Valve (Rast 2,5)	V2.1 - V2.2	>170	V
Options	not measurable		
Display module	Pi5.1 - Pi5.4	5	V
	Pi5.4 - Pi5.5	12	V

Motor

Type	MCA 52/ 64 - 148 t.f. WHE 9
Belt ratio	i = 1: 15.9

Resistance contacts

6 - 7	68.7	Ω ± 7%
4 - 5	2.15	Ω ± 7%
2 - 3	1.89	Ω ± 7%
1 - 3	0.84	Ω ± 7%

Technical data

Radio interference supression

Type	ISKRA - KPB 7325	
Nominal voltage	230	V
Nominal capacity	250nFX1 + 2 x 22 nFY2± 20%	
Derivation current	≥ 4.15 mA(2x2.075mA) at 250V 50Hz	
Nominal resistance	1± 5%	MΩ

Push button switch

Switch start	SST
Switch +	SW+
Switch -	SW-
Switch easy ironing	SEI
Switch pre wash	SPW
Switch rinse intensive	SRI
Switch rinse stop	SRS
Switch spin reduction	SSR

Spare part list

Model **AWM 8062**
Service No. **857080649000**
Version **857080649000**

Pos. No.	12NC Code	Description
001 0	**4819 440 19716**	Cabinet
002 0	**4812 440 19343**	Flap
011 0	**4819 462 48472**	Foot
021 0	**4812 440 19818**	Front
024 0	**4812 440 18998**	Panel, rear
025 0	**4812 404 38551**	Support control board VBL WH
030 0	**4812 310 18586**	Table top VBL WH
040 0	**4812 417 18787**	Hinge
050 0	**4812 459 38021**	Plinth OMEGA
061 0	**4812 466 88458**	Counter weight upper
061 1	**4812 466 88459**	Counter weight front
061 2	**4819 310 39227**	Mounting kit Weight top
061 3	**4819 310 39228**	Mounting kit Weight bottom
081 0	**4812 529 18038**	Shock absorber until 1200
084 0	**4812 466 58001**	Silent bloc
086 2	**4812 401 18412**	Stopper
110 0	**4812 498 18139**	Handle,door white
130 0	**4812 417 28047**	Plate Door lock
130 1	**4812 417 28048**	Plate Doorlock Lower
131 0	**4812 417 28046**	Lock Door
131 1	**4812 417 28045**	Pin Door Lock
131 2	**4812 492 58022**	Spring Door Lock
135 1	**4812 498 18137**	Knob Door safety
135 2	**4812 491 48004**	Spring
135 3	**4812 290 68153**	Holder,adjust. Door Safety
140 0	**4812 450 68219**	Door glass
143 0	**4812 440 19782**	Glassdoor frame VBL WH
144 0	**4812 440 19589**	Frame,door glas DE-WT
191 0	**4812 460 68527**	Door bellow standard
191 0	**4812 460 68532**	Door bellow WH grease resistance
191 1	**4812 492 18017**	Strap
191 2	**4819 530 58059**	Ring
200 1	**4812 418 18283**	Tub 53l front
200 2	**4819 418 18352**	Tub rear
200 3	**4812 520 18065**	Hub cpl. 1200,48L
200 4	**4812 290 88054**	Clamp for tub WH
220 0	**4812 418 18281**	Drum 53l, 1000
271 0	**4812 358 18056**	V-ribbed belt WH 1250 J5
272 0	**4812 528 58027**	Pulley DIAM.298
272 2	**4812 532 18024**	Washer
272 3	**4812 505 18368**	Nut M10
292 0	**4812 530 58101**	Gasket Tub
301 0	**4812 452 10654**	Control panel
303 0	**4812 498 78095**	Handle
321 0	**4812 452 10653**	Insert panel
321 1	**4812 532 98011**	Fastener f. Inlay
331 0	**4812 414 58111**	Knob,timer VBL cpl.
332 1	**4812 513 18097**	Push button Start VBL WH
332 2	**4812 513 18098**	Push button spin speed VBL WH
332 3	**4812 513 18099**	Push button option VBL WH
332 4	**4812 513 18101**	Push button plus VBL WH
332 5	**4812 513 18102**	Push button minus VBL WH
400 0	**4812 361 18301**	Motor 800/1000 MCA 52
409 0	**4812 362 48004**	Brush,carbon motor CESET
421 0	**4812 121 18142**	Interf.filter 1,00 µ F

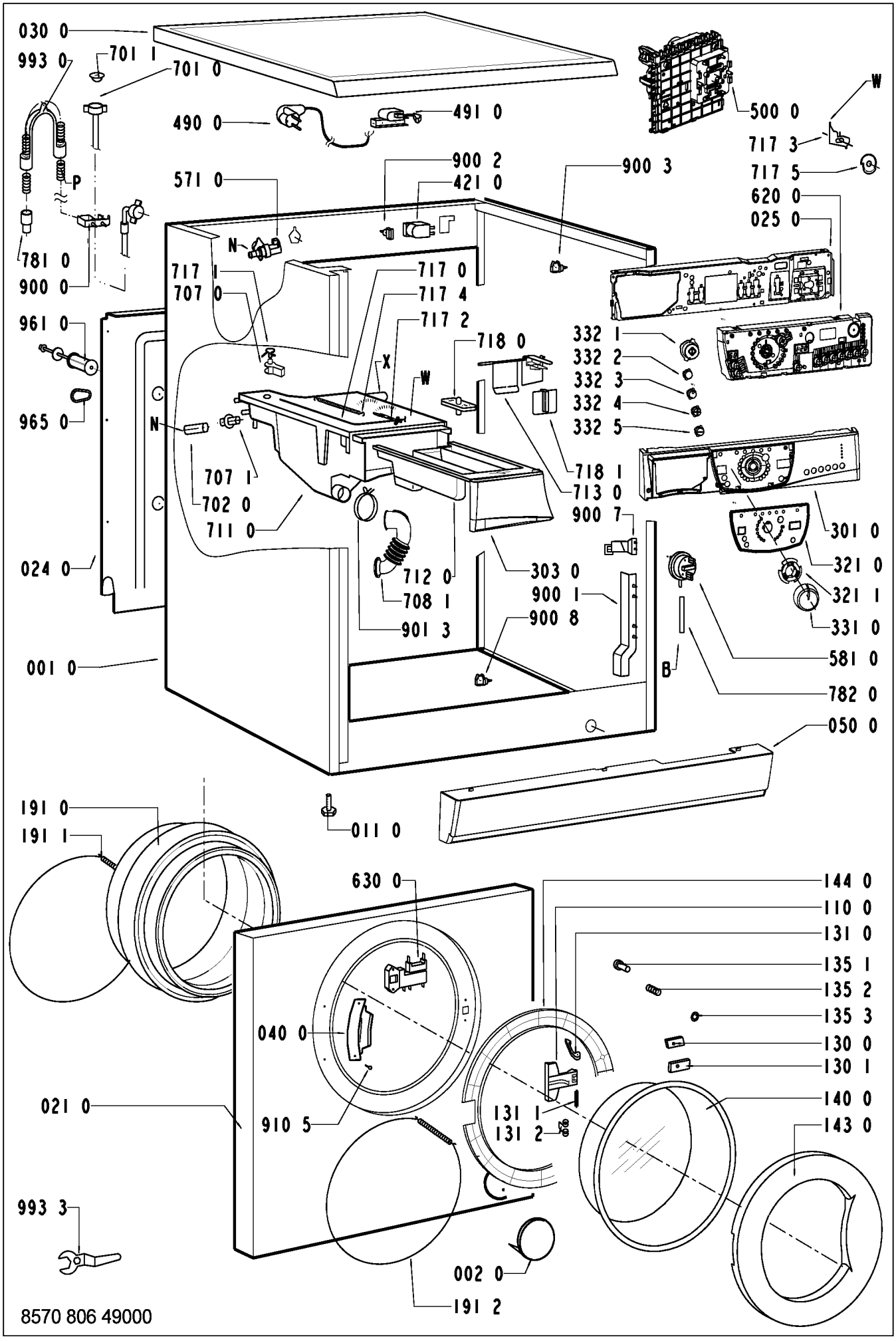
Pos. No.	12NC Code	Description
430 0	**4812 310 18458**	Pump SERVICE SET
451 0	**4812 259 28759**	Heating element
490 0	**4819 321 18136**	Cable,mains 2m SA
491 0	**4812 321 28367**	Strain relief
500 0	**4812 282 18837**	Timer SC1 (EI,PW,IR,RH)
571 0	**4812 271 28375**	Valve,magnet Single
581 0	**4812 276 18327**	Pressostat 55/35
620 0	**4812 239 58002**	Module "A" C/DS
630 0	**4812 280 58026**	Door lock 3 TABS
691 0	**4812 282 18702**	Sensor NTC (SC1)
701 0	**4819 530 28848**	Hose, inlet
701 1	**4819 466 69704**	Gasket and filter
702 0	**4819 530 29019**	Hose intern
707 0	**4812 526 48031**	Nozzle Distribution
707 1	**4812 526 48028**	Nozzle
708 1	**4812 530 48143**	Bend
711 0	**4812 418 88055**	Detergent disp. 4 ch. 53 l
712 0	**4812 418 79703**	Drawer 4 VBL ASS
713 0	**4812 418 88028**	Flap Detergent Cont.
717 0	**4812 418 78925**	Bowden cable
717 1	**4812 321 38013**	Lever , Nozzle
717 2	**4812 321 38012**	Holder,adjust.
717 3	**4812 278 88007**	Slide
717 4	**4812 492 38359**	Spring , Nozzle
717 5	**4812 282 18806**	Cam 4 C. SC1/VBL/WH
718 0	**4812 526 48051**	Siphon
718 1	**4812 418 88024**	Accessory
753 1	**4819 418 68234**	Chamber,air
754 0	**4812 530 28826**	Drainhose
754 1	**4812 530 28832**	Lock eco
754 2	**4812 530 28829**	Flange eco
760 0	**4812 480 58105**	Filter set pump
781 0	**4819 530 28847**	Hose,draining
782 0	**4812 530 28827**	Hose Pressostat
787 0	**4812 530 28813**	Steam hose
787 2	**4819 401 18868**	Clamp,hose 26,8 mm
794 5	**4812 530 58095**	Gasket Air trap
900 0	**4812 255 18204**	Holder Hose outlet
900 1	**4812 290 88049**	Bracket
900 2	**4812 290 88046**	Cable clamp
900 3	**4812 290 88048**	Cable clamp
900 4	**4819 401 18872**	Clamp,hose
900 5	**4819 401 18529**	Clamp,hose
900 6	**4812 401 18444**	Support Heatingelement
900 7	**4812 256 98031**	Holder pressostat
900 8	**4819 401 18823**	Clamp
901 3	**4812 401 18414**	Clamp,hose
910 0	**4812 502 18383**	Screw Torx T40 M 8X 25
910 5	**4812 903 08014**	Screw M5x12
930 0	**4819 492 38139**	Spring Suspension
941 0	**4812 520 28004**	Bearing,ball 6206
941 1	**4812 520 28066**	Bearing,ball 6204
941 5	**4812 520 18067**	Hub 1200,48L
953 0	**4812 530 58099**	Shaft seal 1200
953 1	**4812 530 58096**	O-Ring Bearing

Spare part list

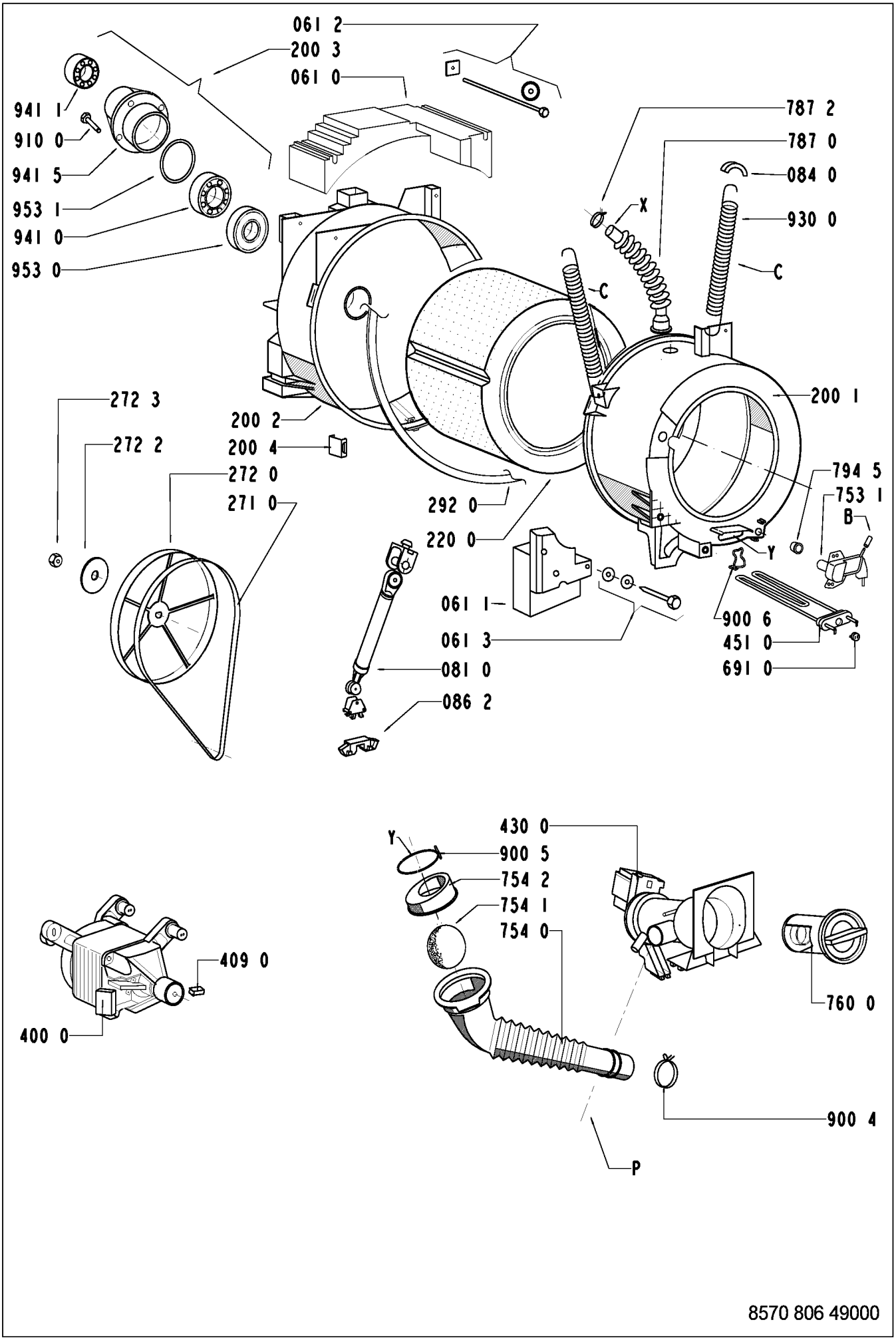
Model	**AWM 8062**
Service No.	**857080649000**
Version	**857080649000**

Pos. No.	12NC Code	Description
961 0	**4819 532 68829**	Spacer
965 0	**4812 466 68545**	Cover BK/WH
993 0	**4819 530 29028**	Bow
993 3	**4812 395 58004**	Tool

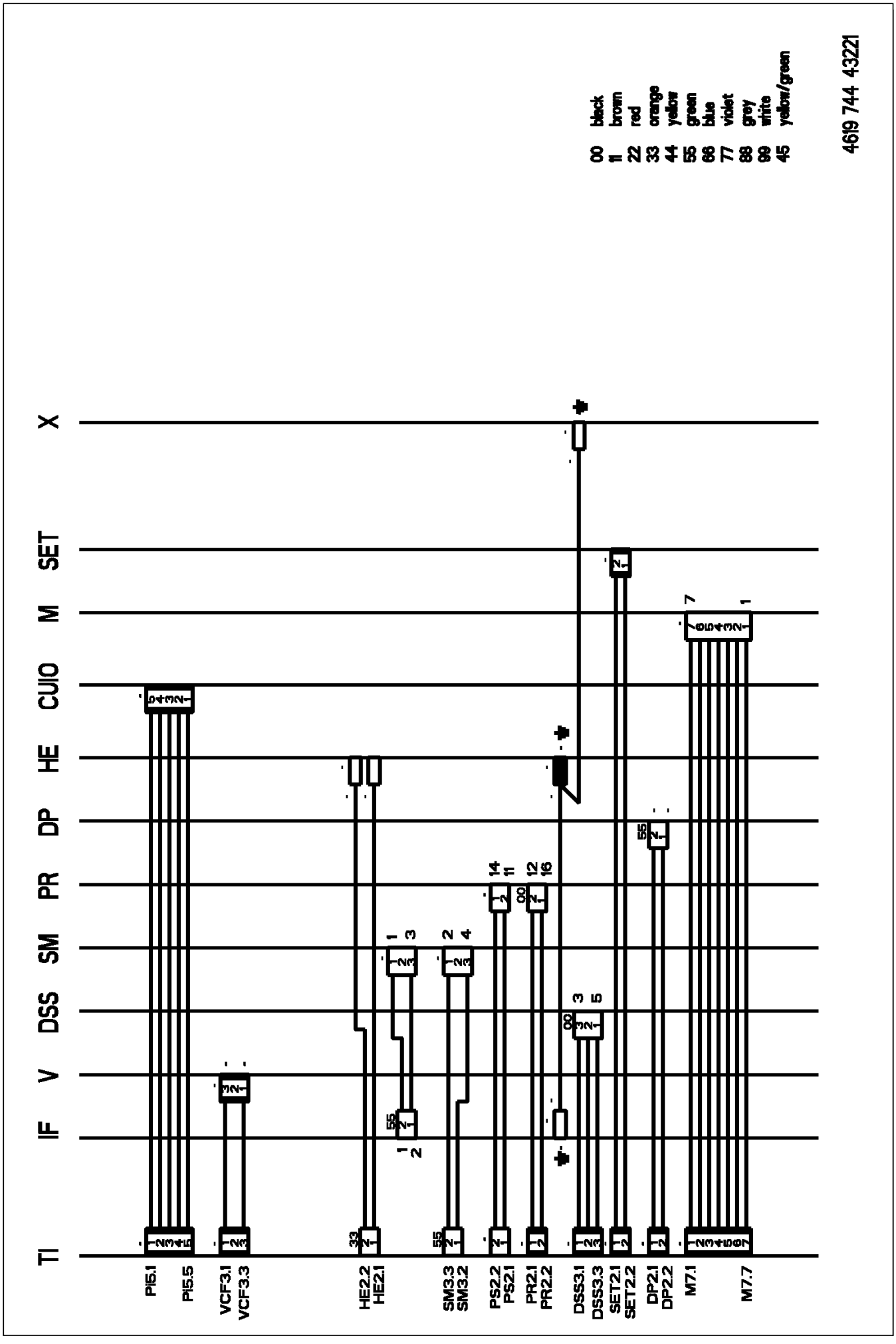
Exploded view



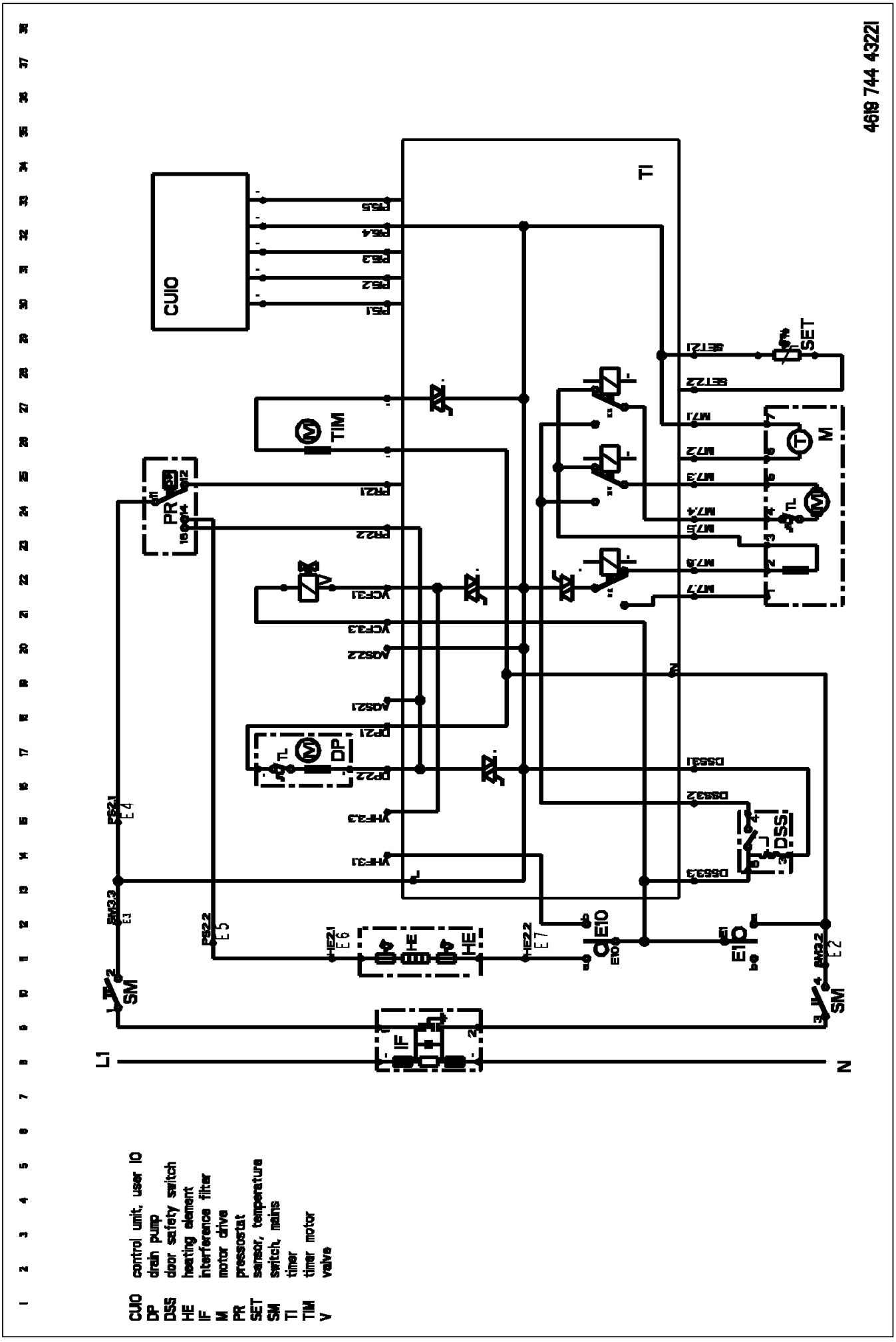
Exploded view



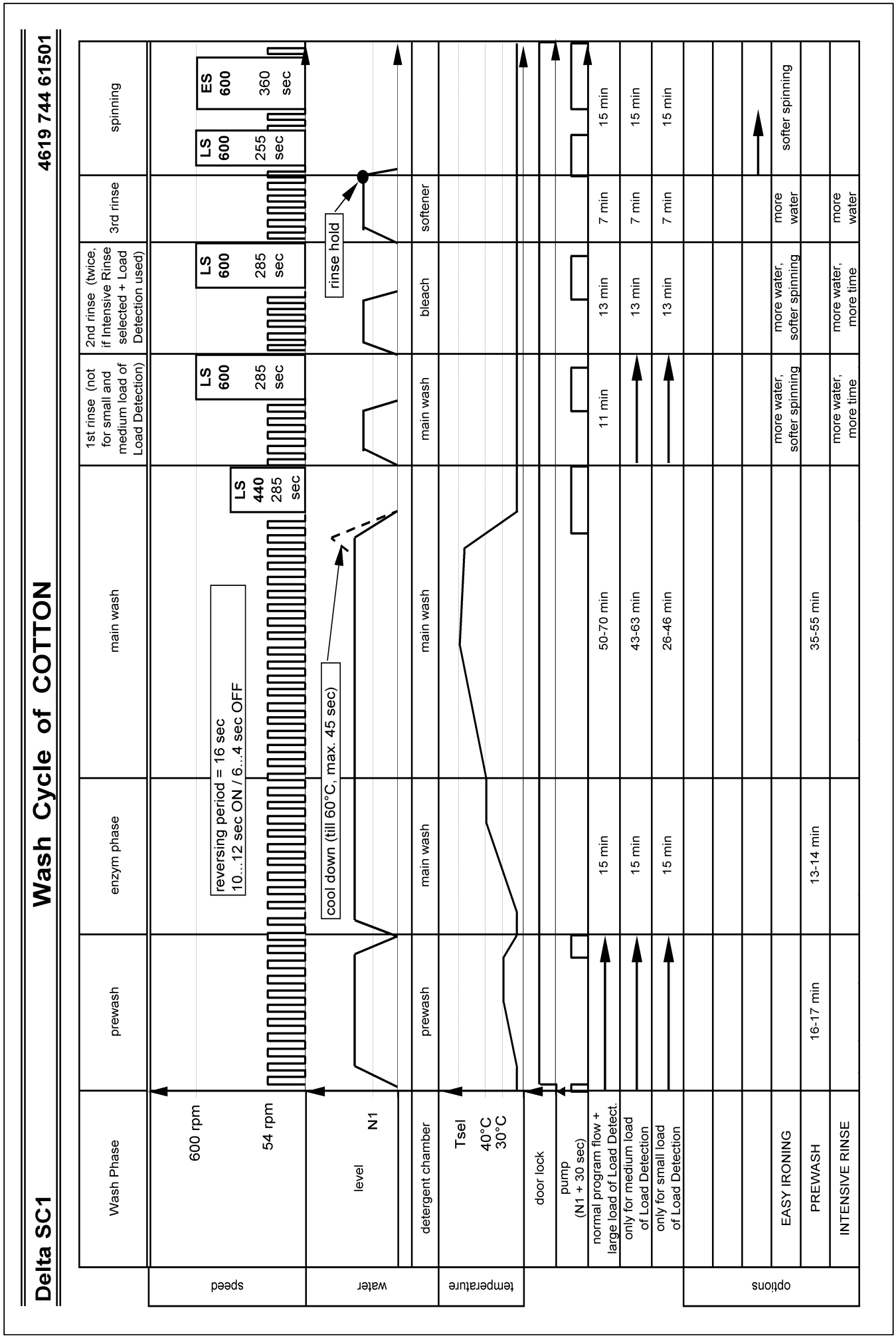
Wiring diagram



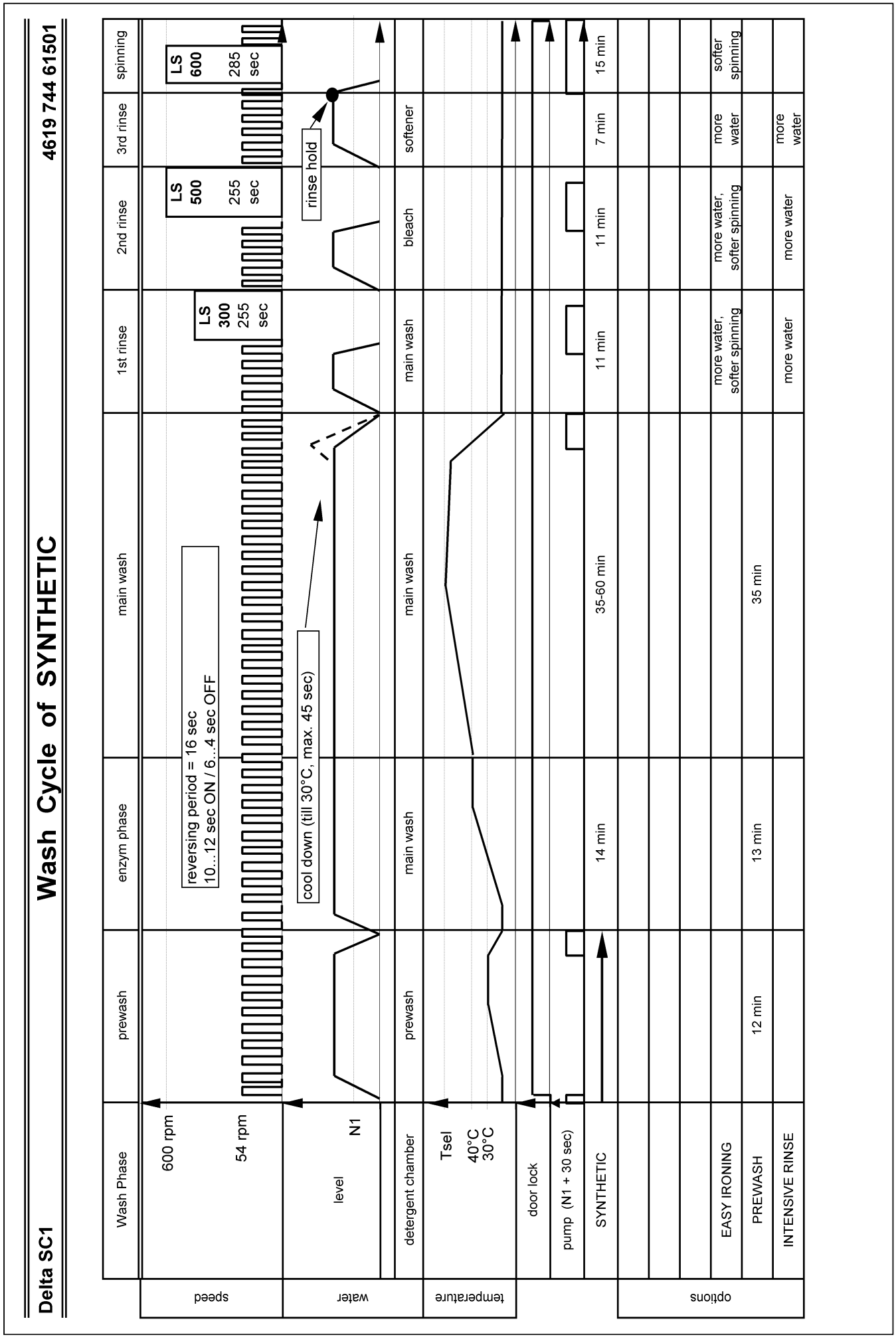
Circuit diagram



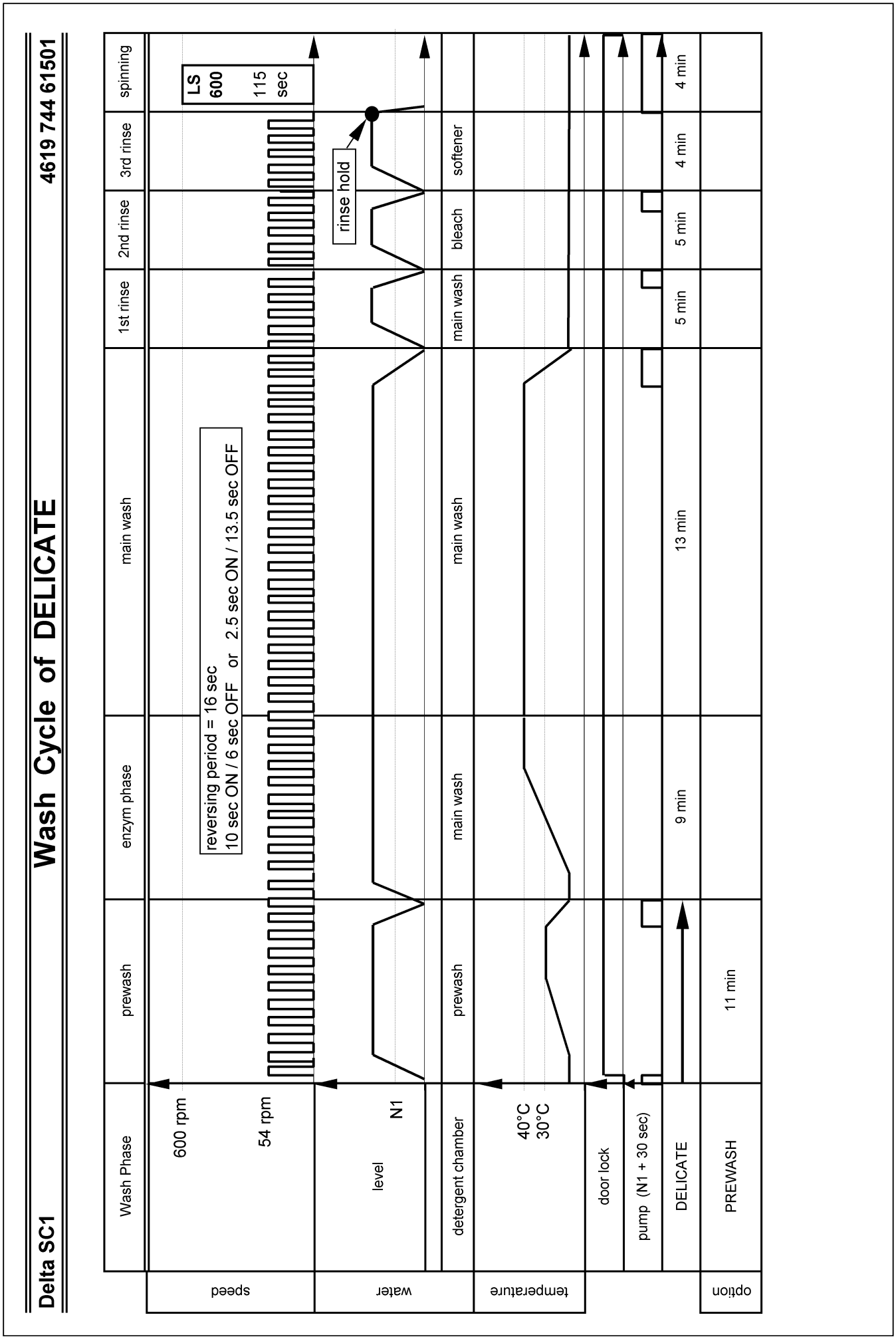
Program chart



Program chart

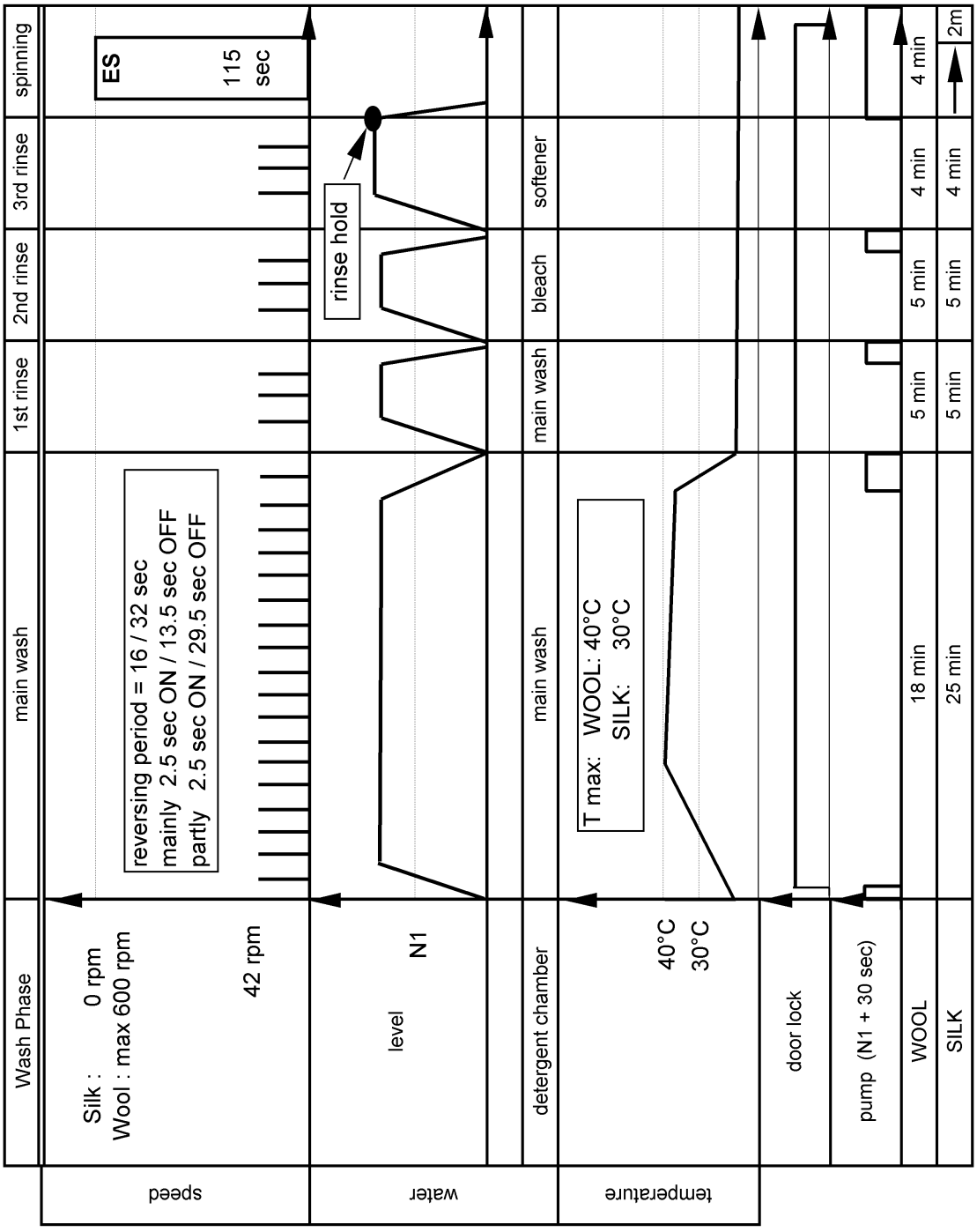


Program chart



Program chart

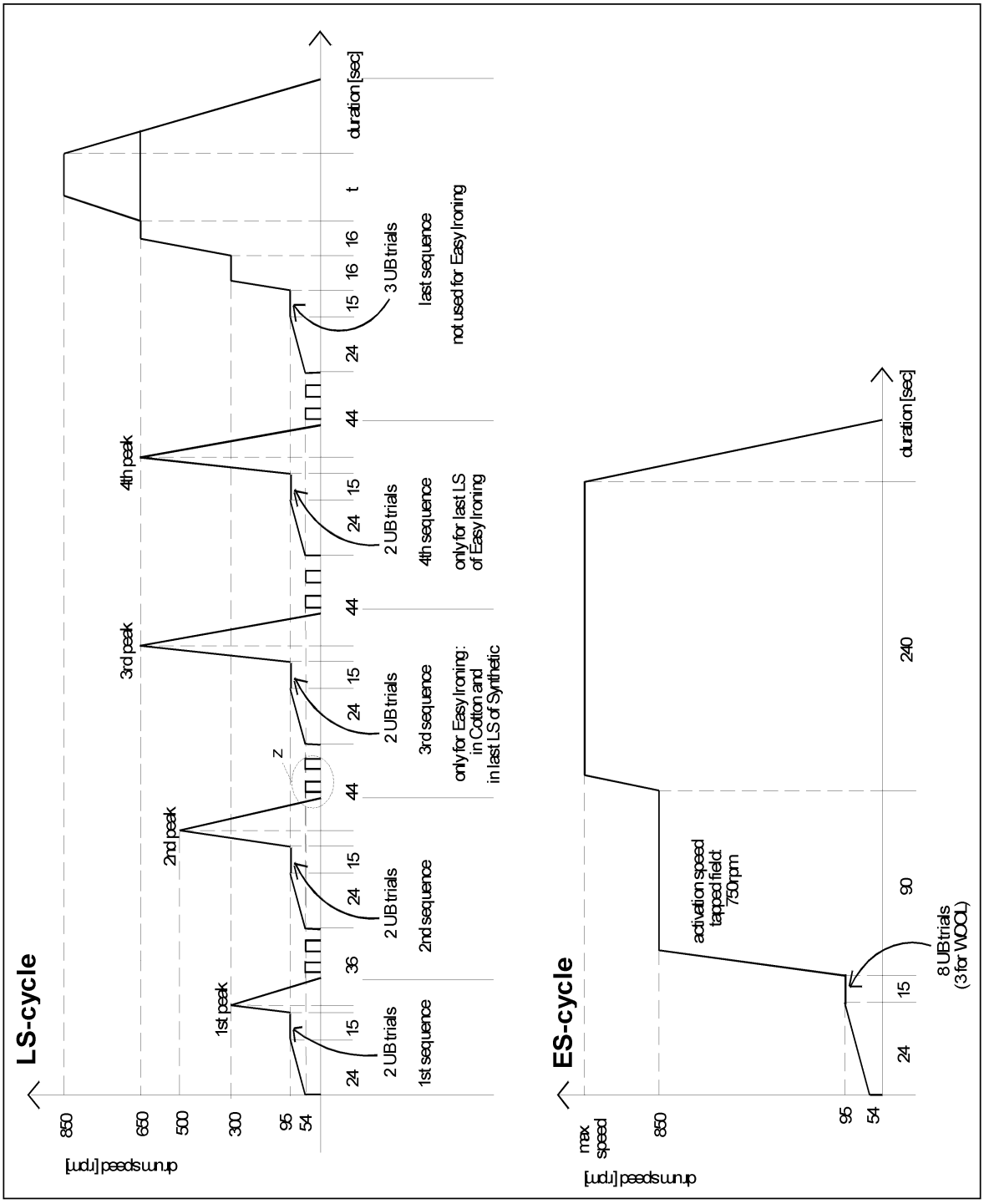
Delta SC1 **Wash Cycles of WOOL and SILK** **4619 744 61501**



Program chart

Delta SC1 **4619 744 61501**

Spinning Profiles



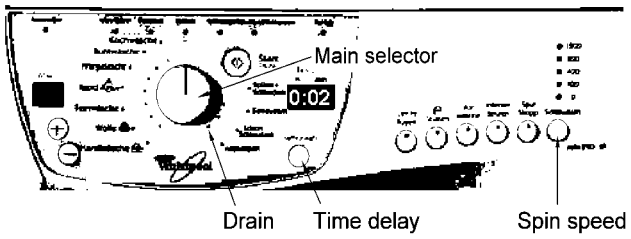
Text/Legend

Whirlpool SC1 VBL Version A and B test flow

1. **Attention : Use test program without laundry !!**

2. **Selecting the program :**

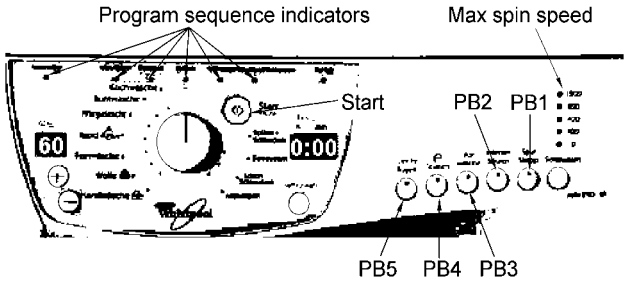
Select the Drain program by turning the main selector. Wait until the display shows 0:02 and till the pump has stopped



3. **Start of test program :**

Press PB1 twice, then PB2 twice and then the start button.

Indication of entering the test program:
- temperature display = 60°C
- delay start display = 0:00
- speed LED max = ON
- LED of PB1 and PB2 = ON



4. **Stopping the test program :** Stop by moving the main selector into any other position.
- note - no stop of test program by main interruption.

Testprogram for Whirlpool SC 1 timer VBL version A or B (Central program selector).

Position of timer	Program sequence LED´s: Pre-wash	Main-wash	Rinse	Rinse hold	Spin-ning	Aqua-stop	Detergent box	Inlet / Outlet	Max temp.	Duration (" = sec) (' = min)	Movement of drum	Advance condition	Advance by option button (Press slowly twice)	Checking
-	X	X	X	X	X		-				no movement	↓	PB 3	PB 1, PB 2
6	X	X	X	X	X	X	pre wash	fill		60"	no movement		PB 3	PB 3
8								(hot) fill	hot fill	60"	no movement		PB 4 **, PB 1	PB 4, mainwash fill, hot fill N1
16		X	X	X	X		main wash	fill		6'	gentle wash	N 1		
18								fill			gentle wash	60"	PB 1	
20								(fill)	90°C	55'	gentle wash	till 90°C - time unknown	PB 1	heating, NTC leakage
23			X	X	X		bleach *				turns right	3"		
								fill			turns right	60"	PB 5 ** or PB 1	PB 5, bleach fill
27							softener	fill			turns left	60"	PB 6 ** or PB 1	PB6, softener fill
28				X	X		-	pump		6'	gentle wash	N 1	PB 1	pump, N1
29					X		-	pump			0 - 95 rpm	4", N 1		pump
							-	pump			select. Speed	300", N 1	PB 1	motor - spinning
5							-			-	no movement	∞		

**** if PB 4 / PB 5 / PB 6 are present they must be used to advance to next step - if not present - use PB1 instead.**

* 4 chamber detergent dispenser "bleach compartment"
3 chamber detergent dispenser "main wash" compartment

Reaction to failure: Timer SC1 goes into safety routine
- drain to level 1+30 sec. (time out for draining = 6 minutes)
- stop motor (relais in safety position)
- stop valve
- go out of heating step, if time out is reached

Text/Legend

Table of failures:

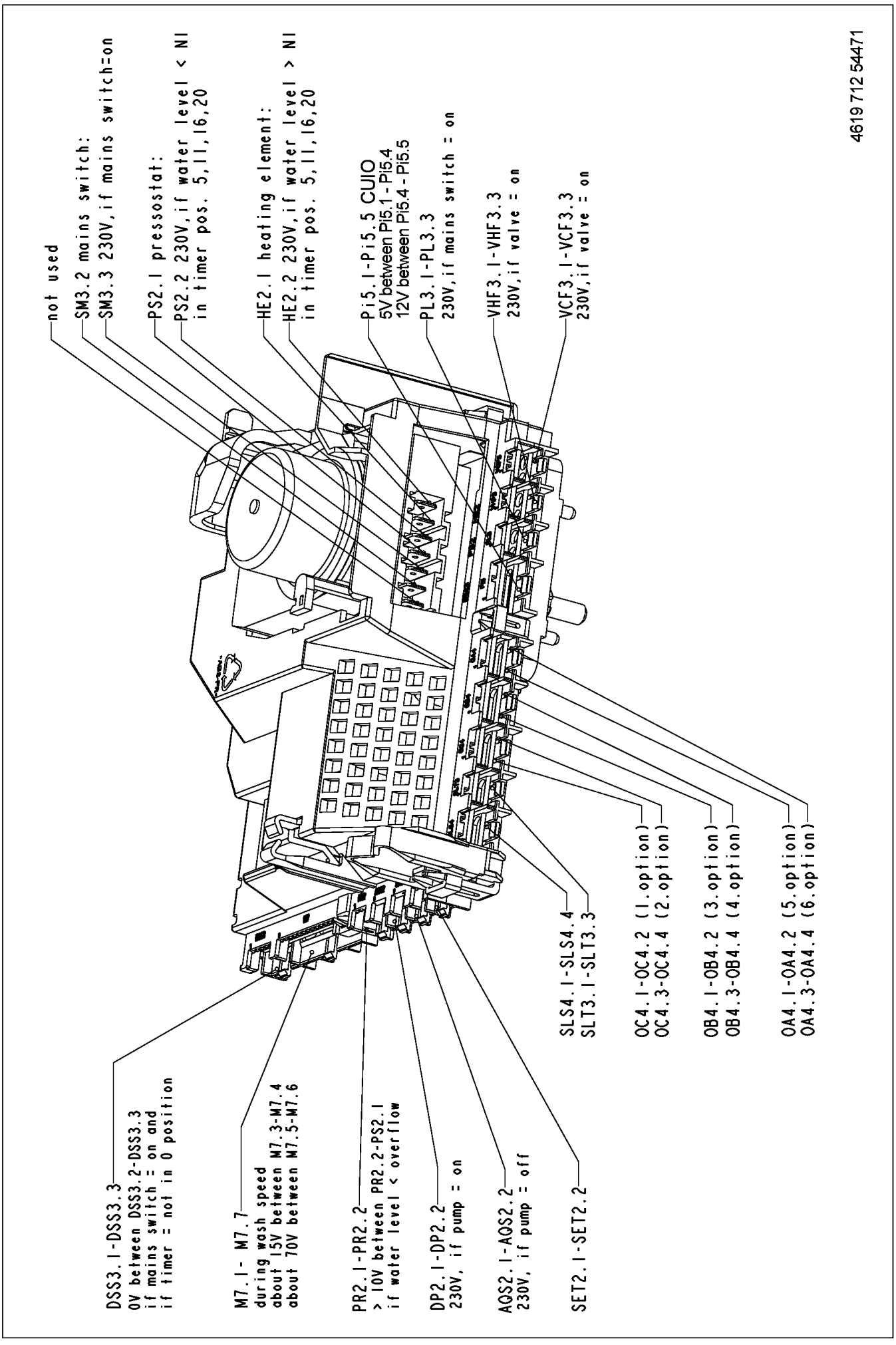
Failure Identifier	Indication	Detected failure	To be checked
1	FH	No water inlet	Water Tap / Valve / Flowmeter / Pressostat
2	FA	Aquastop failure	Aquastop switch
3	FP	Drain failure	Drain pump / Pressostat
4		***Not active***	
5	F05	NTC failure (SC / OC)	NTC
6	F06	Tachometer failure (no motor movement detected)	Motor / Tachometer
7	F07	Triac short circuit detection	Control unit, Motor
8		***Not active***	
9	F09	Overflow failure	Pressostat
10		***Not active***	
11	F11	Communication failure	Control unit, I2C bus
12		***Not active***	
13		***Not active***	
14	F14	EEPROM failure	Control unit
15		***Not active***	
16	F16	Control failure	Control unit
17		***Not active***	
18	F18	Control failure	Control unit
19		***Not active***	
20	F20	Control failure	Control unit
21	F21	Control failure	Control unit

Display of failures on the speed LED's (flashing):

Errors	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	F:H	F:A	F:P	F:4	F:5	F:6	F:7	F:8	F:9	F:10	F:11	F:12	F:13	F:14	F:15
Speed Leds	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	○	○	○	○	○	○	○	○	●	○	●	○	○	●	○
	○	○	○	○	●	●	●	○	○	○	○	○	○	●	○
	○	●	●	○	○	●	●	○	○	○	●	○	○	●	○
	●	○	●	○	●	○	●	○	●	○	●	○	○	○	○

Errors	16	17	18	19	20	21
	F:16	F:17	F:18	F:19	F:20	F:21
Speed Leds	●	○	●	○	●	●
	○	○	○	○	○	○
	○	○	○	○	●	●
	○	○	●	○	○	○
	○	○	○	○	○	●

Text/Legend


not used
SM3.2 mains switch:
SM3.3 230V, if mains switch=on
PS2.1 pressostat:
PS2.2 230V, if water level < NI
in timer pos. 5,11,16,20
HE2.1 heating element:
HE2.2 230V, if water level > NI
in timer pos. 5,11,16,20
Pi5.1-Pi5.5 CUIO
5V between Pi5.1-Pi5.4
12V between Pi5.4-Pi5.5
PL3.1-PL3.3
230V, if mains switch = on
VHF3.1-VHF3.3
230V, if valve = on
VCF3.1-VCF3.3
230V, if valve = on
4619 712 54471
DSS3.1-DSS3.3
0V between DSS3.2-DSS3.3
if mains switch = on and
if timer = not in 0 position
M7.1- M7.7
during wash speed
about 15V between M7.3-M7.4
about 70V between M7.5-M7.6
PR2.1-PR2.2
> 10V between PR2.2-PS2.1
if water level < overflow
DP2.1-DP2.2
230V, if pump = on
AQS2.1-AQS2.2
230V, if pump = off
SET2.1-SET2.2
SLS4.1-SLS4.4
SLT3.1-SLT3.3
OC4.1-OC4.2 (1.option)
OC4.3-OC4.4 (2.option)
OB4.1-OB4.2 (3.option)
OB4.3-OB4.4 (4.option)
OA4.1-OA4.2 (5.option)
OA4.3-OA4.4 (6.option)